



REPLACEMENT SHEET
U.S. patent application serial No.: 09/924,140
Title: DCT/IDCT with Minimum Multiplication
Inventors: He Ouyang, et al.
Atty. Docket No.: 22682-06189

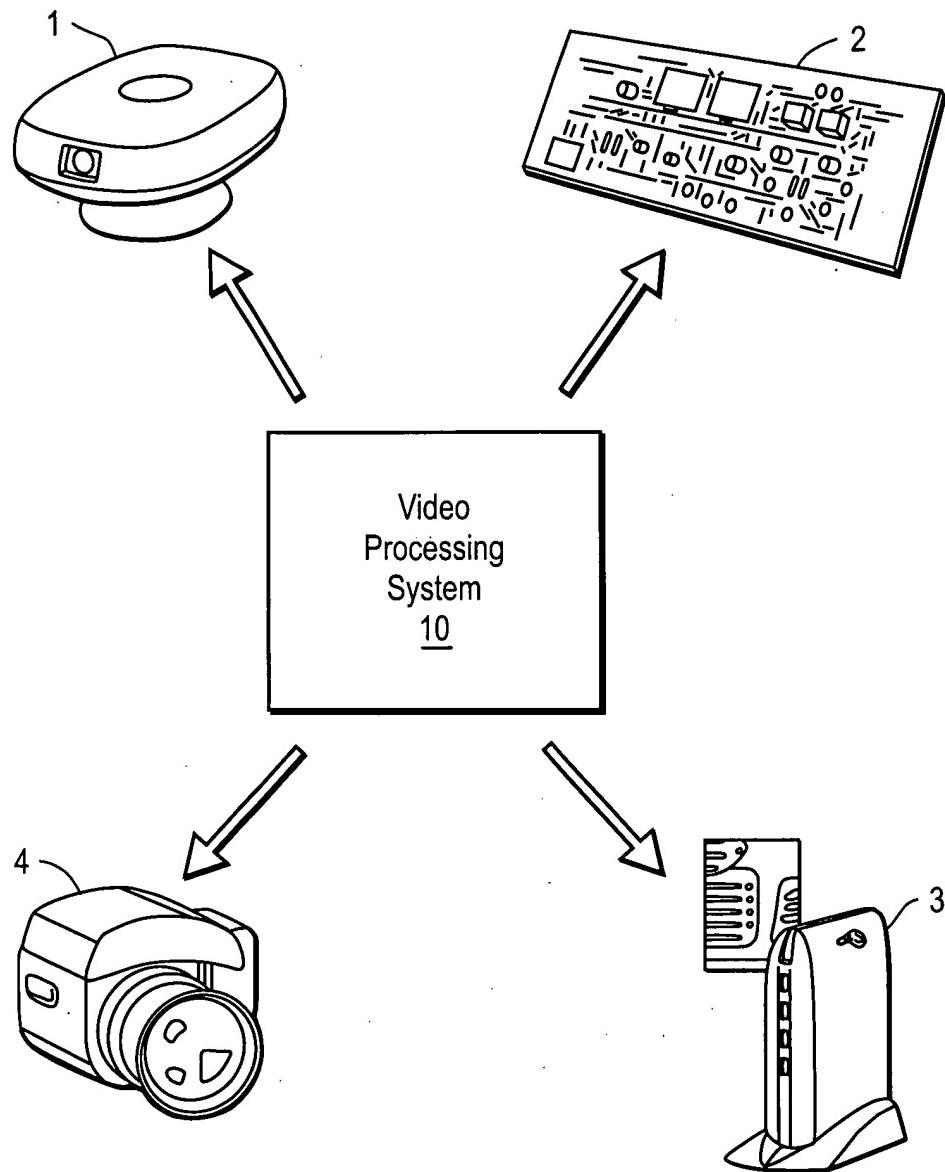


FIG. 1A

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
Title: DCT/IDCT with Minimum Multiplication
Inventors: He Ouyang, et al.
Atty. Docket No.: 22682-06189

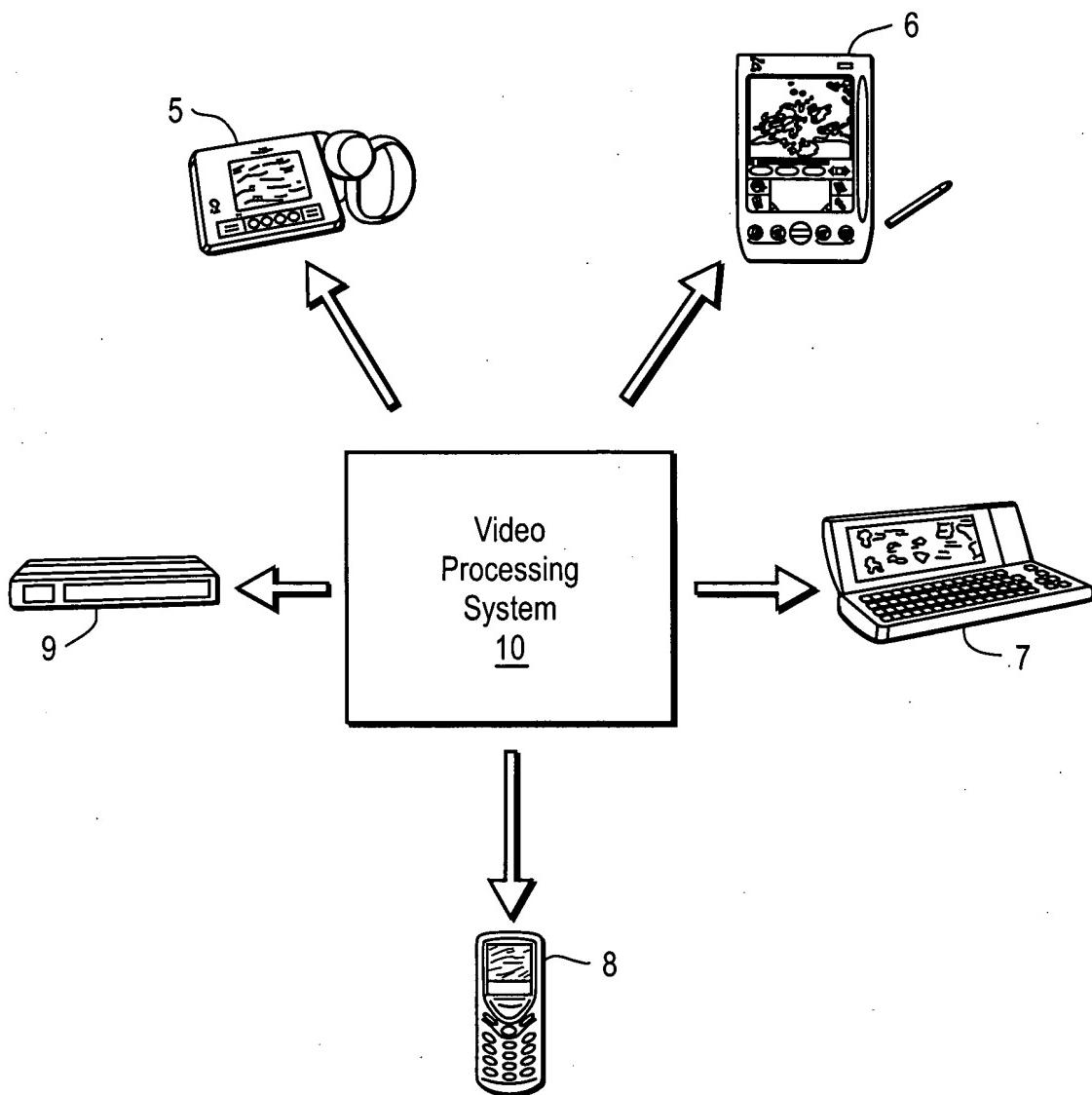


FIG. 1B

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
Title: DCT/IDCT with Minimum Multiplication
Inventors: He Ouyang, et al.
Atty. Docket No.: 22682-06189

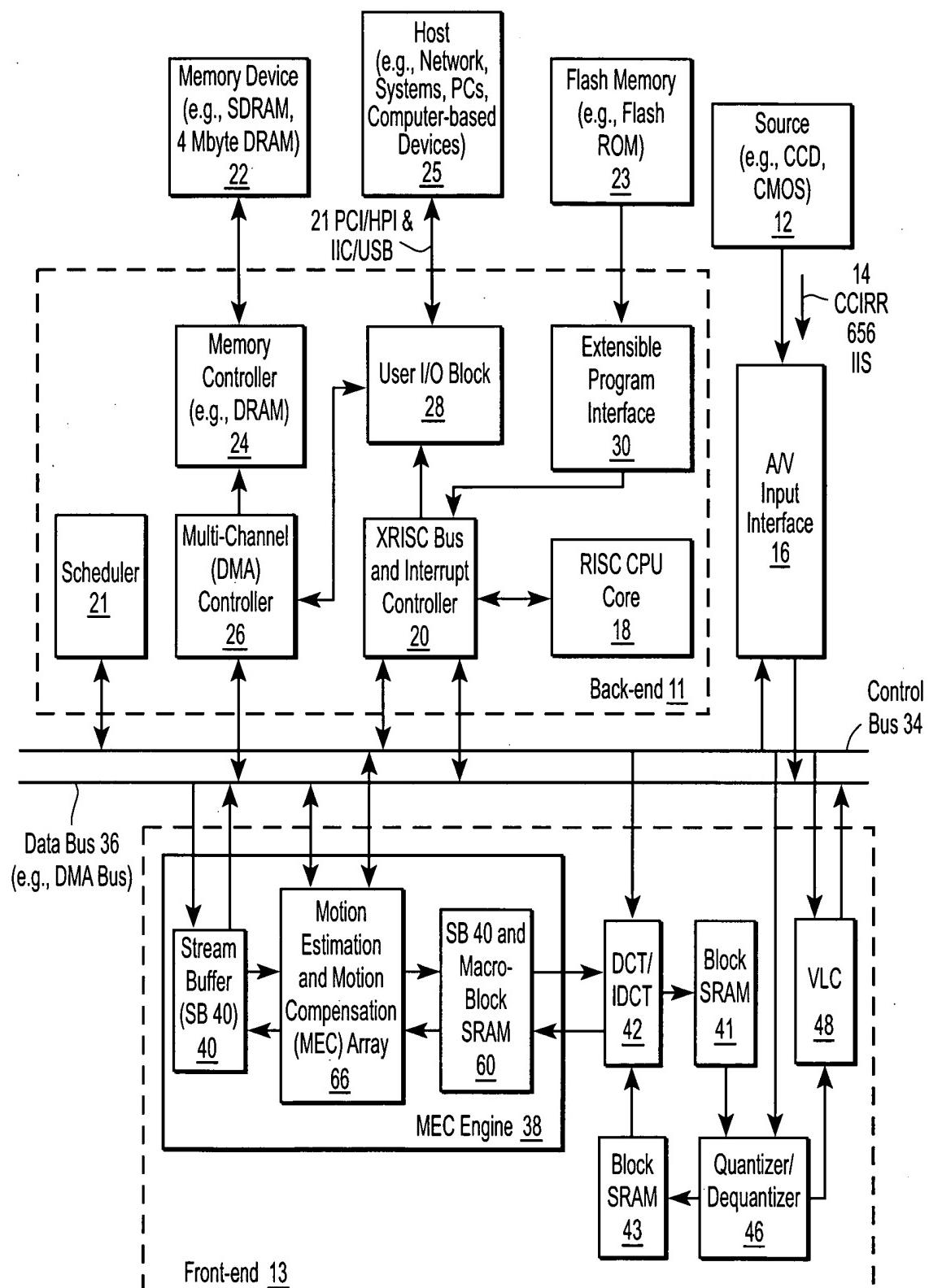
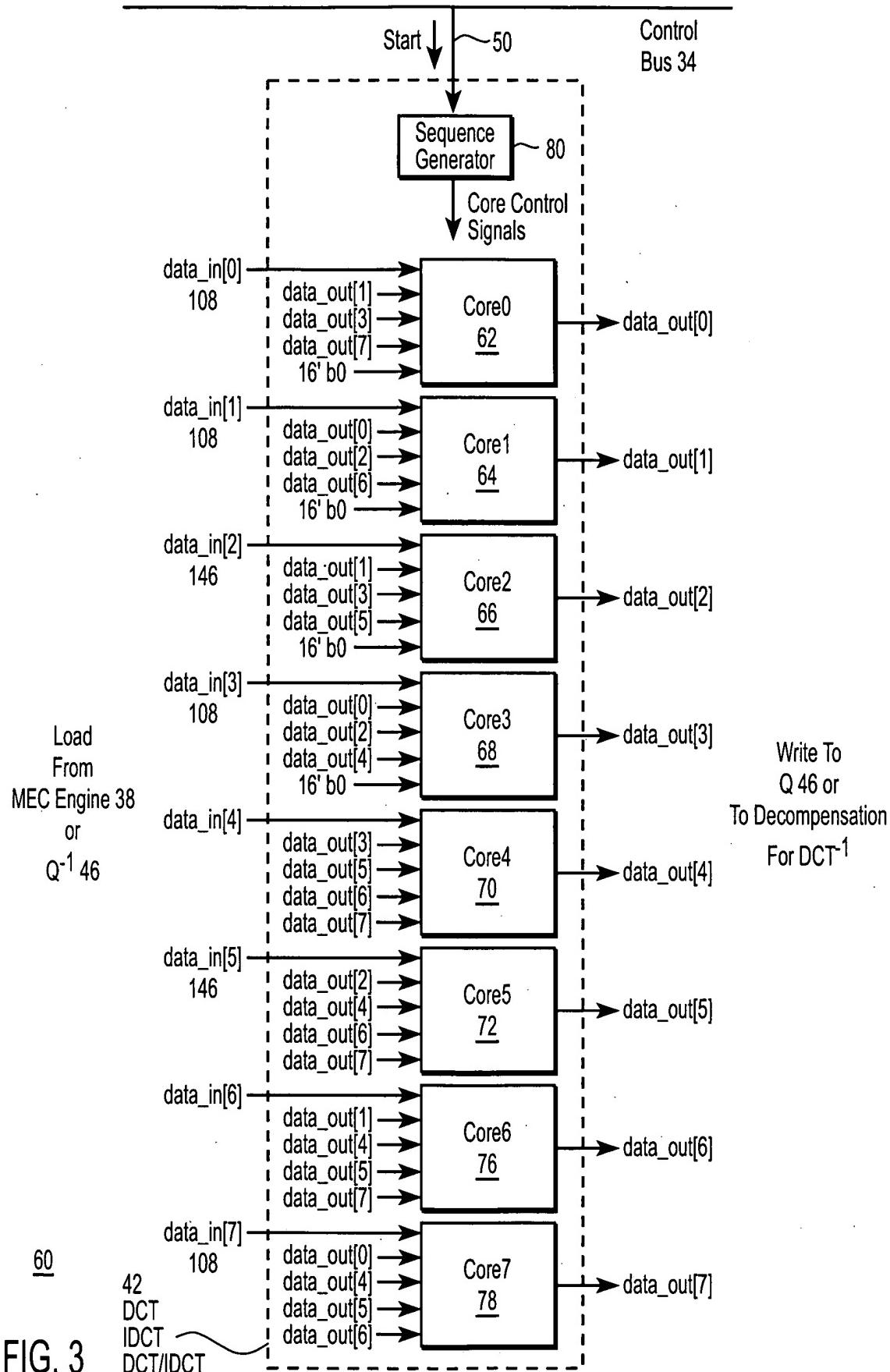


FIG. 2



Datapath of core0,core1,core3,core7

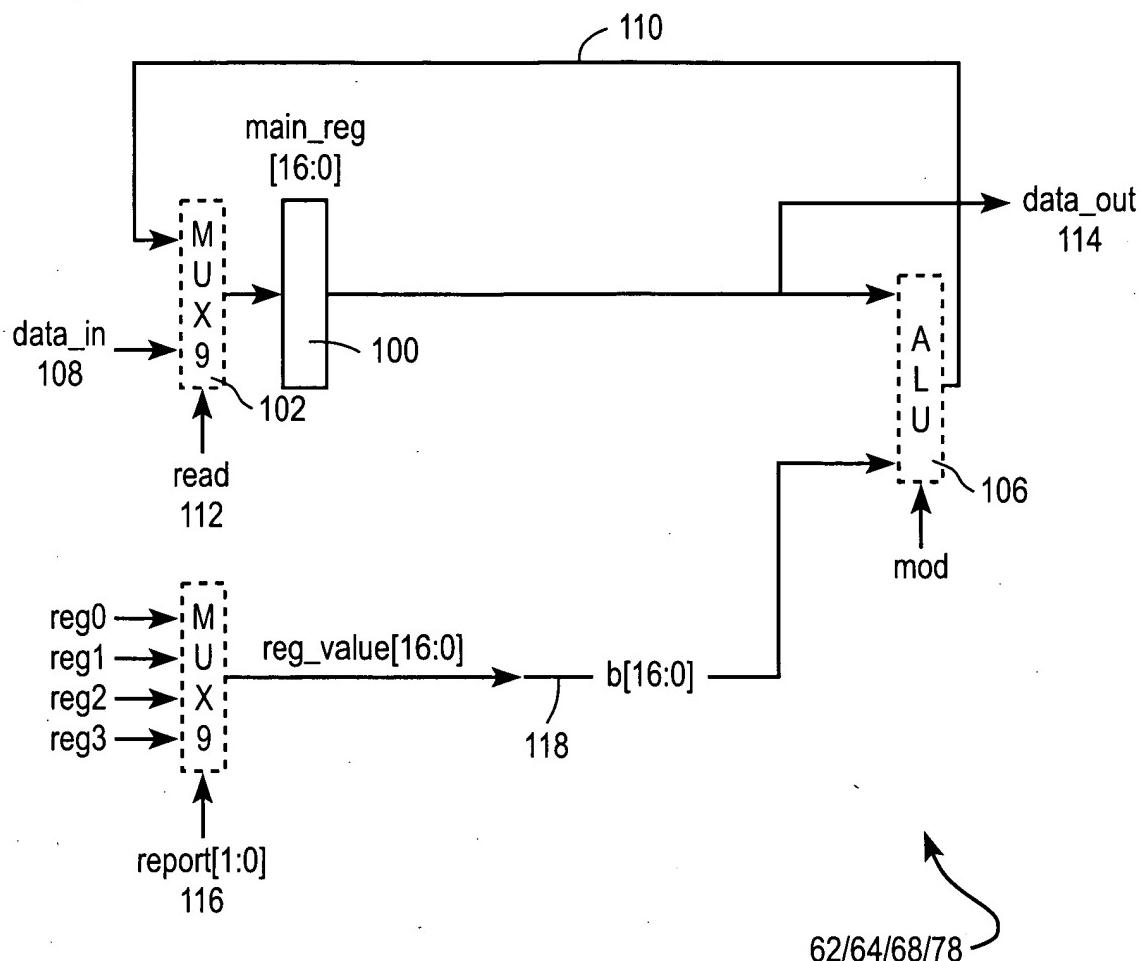


FIG. 4

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
 Title: DCT/IDCT with Minimum Multiplication
 Inventors: He Ouyang, et al.
 Atty. Docket No.: 22682-06189

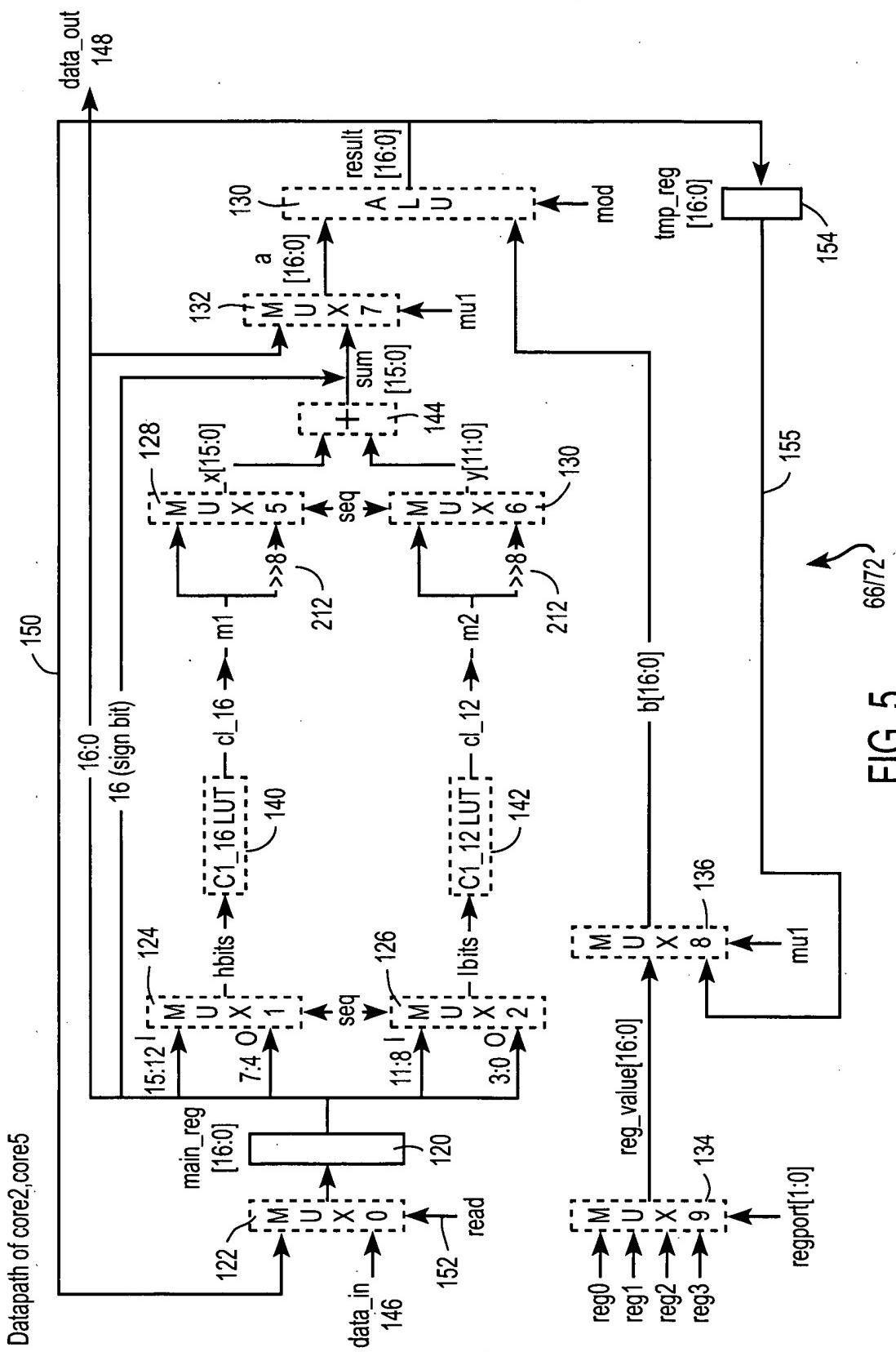
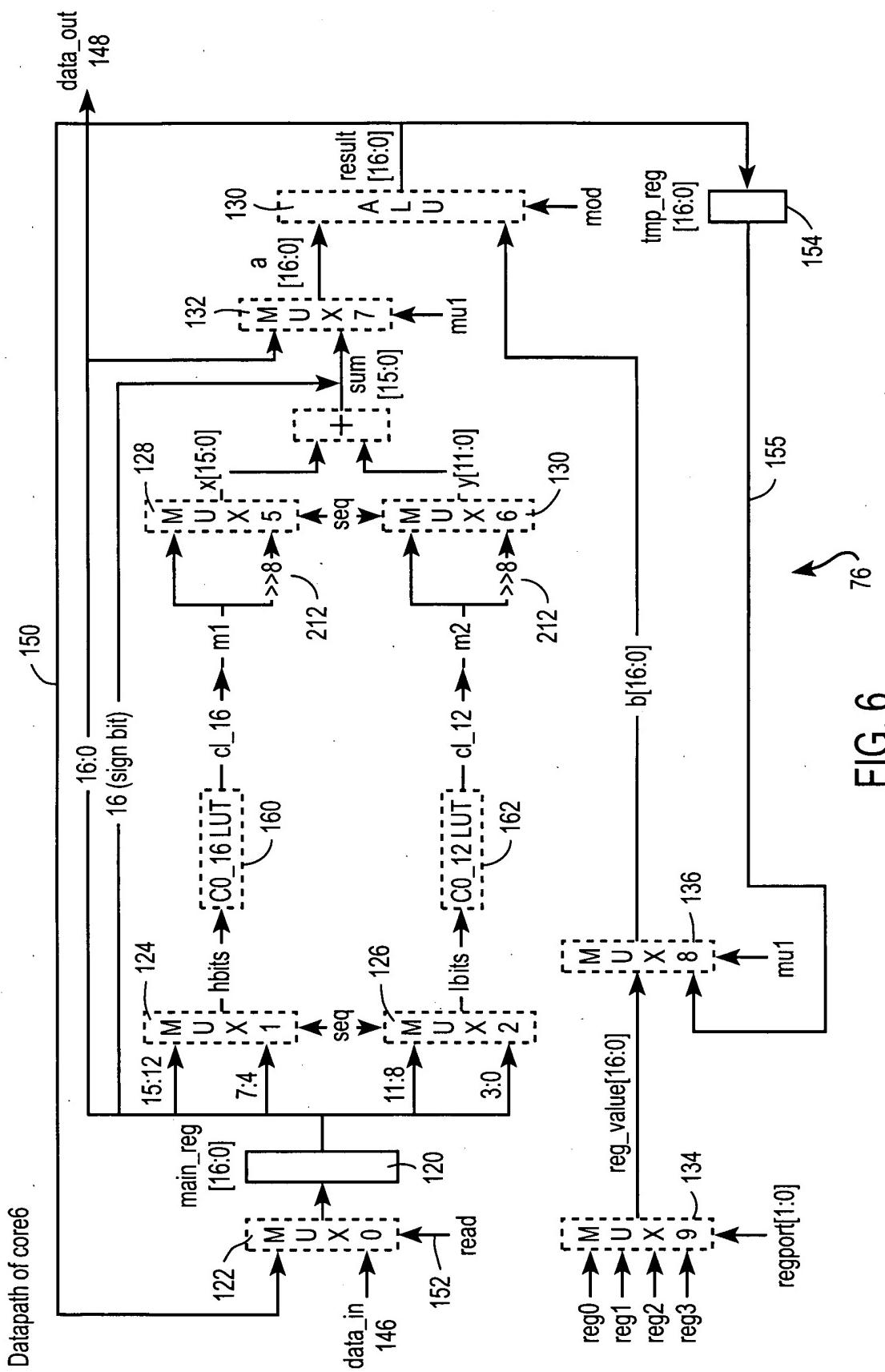


FIG. 5

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
 Title: DCT/IDCT with Minimum Multiplication
 Inventors: He Ouyang, et al.
 Atty. Docket No.: 22682-06189



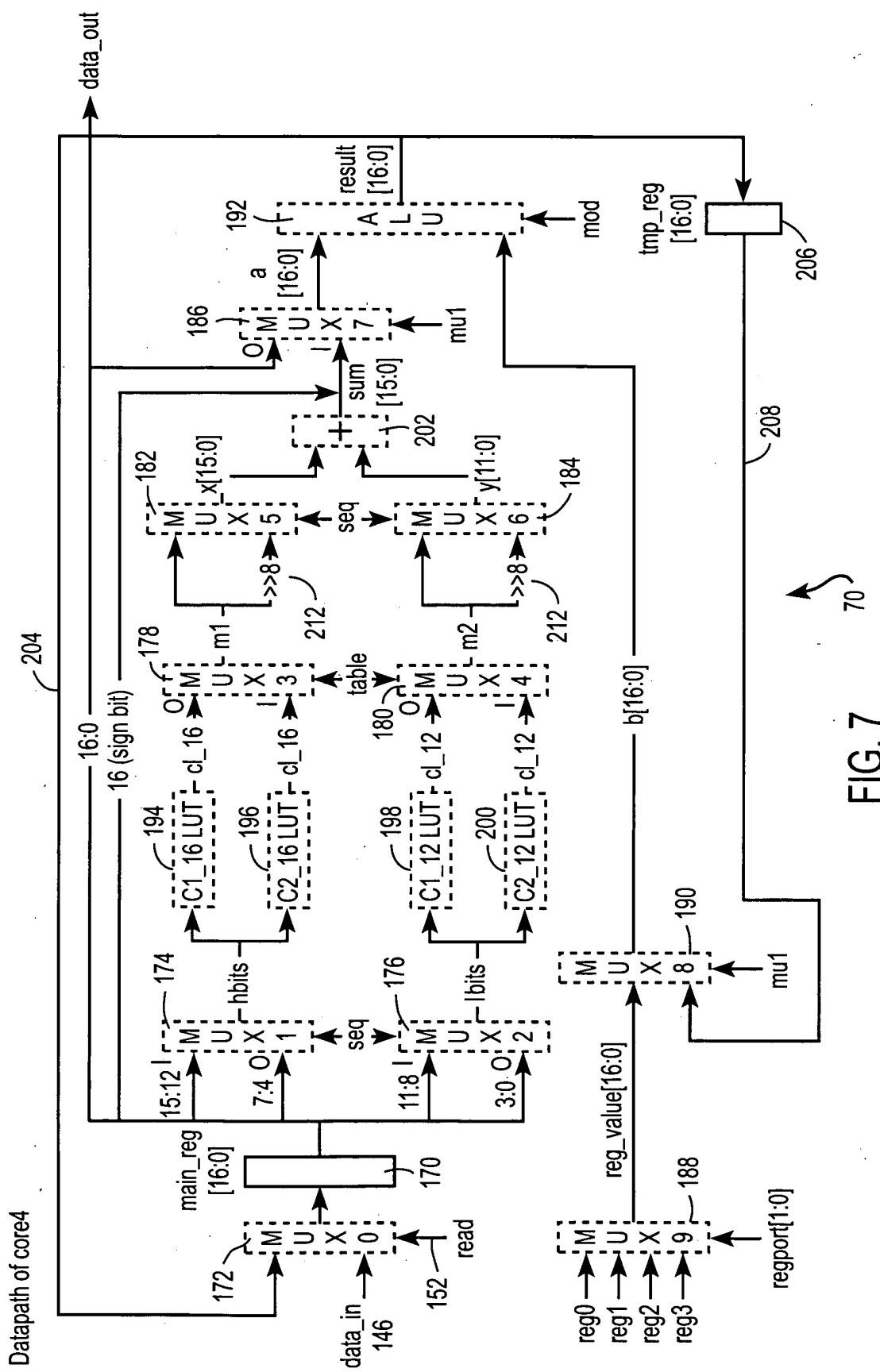


FIG. 7

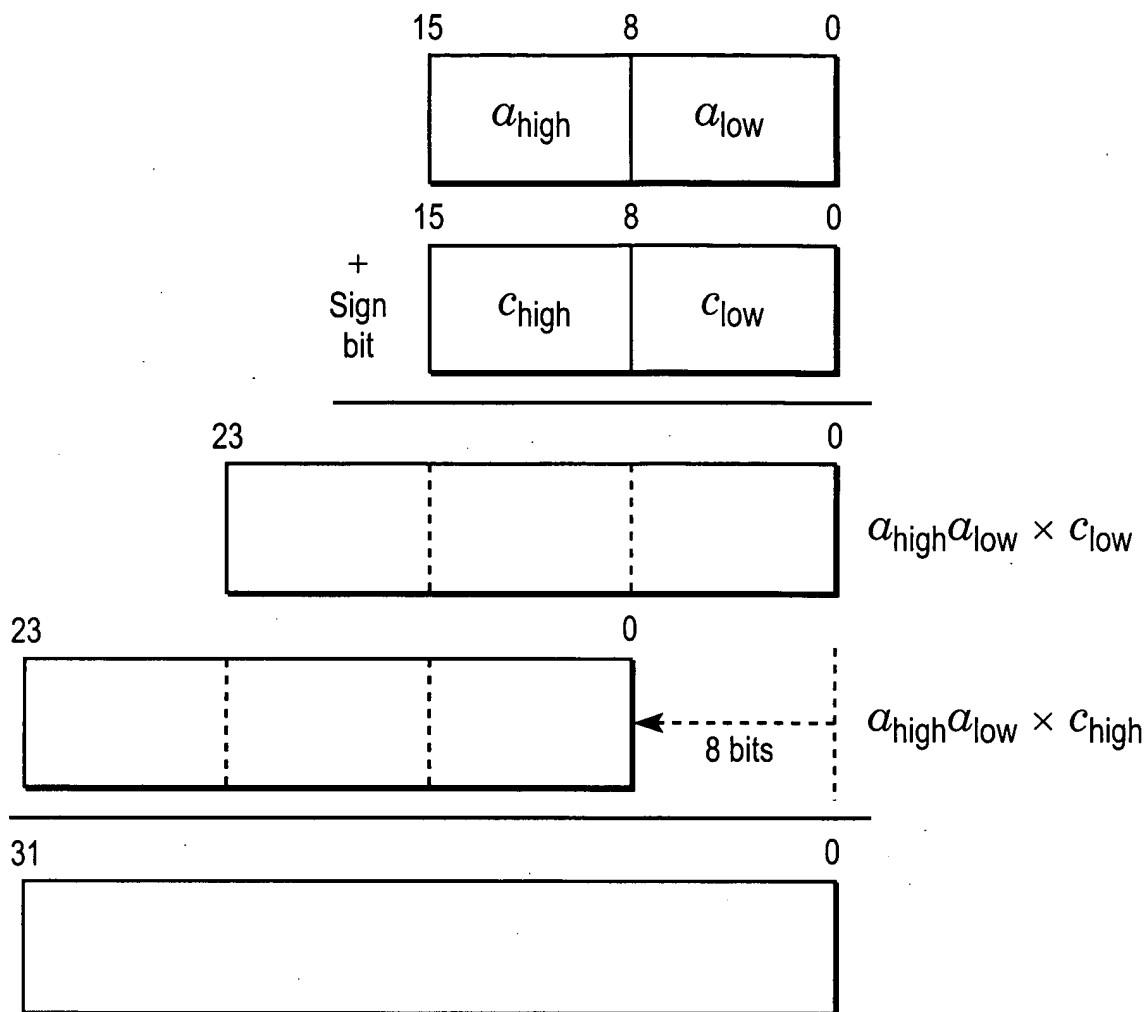


FIG. 8A

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
Title: DCT/IDCT with Minimum Multiplication
Inventors: He Ouyang, et al.
Atty. Docket No.: 22682-06189

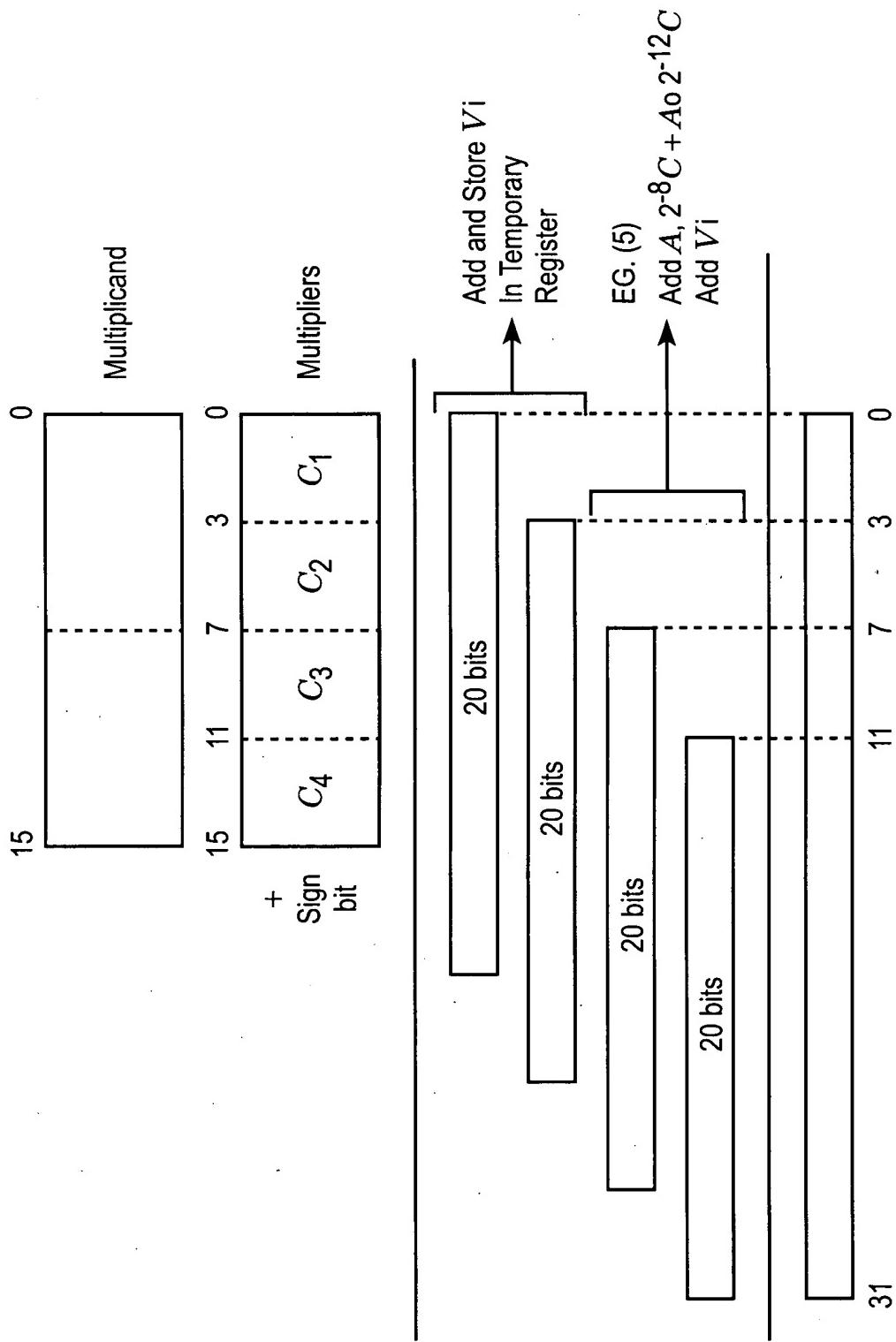


FIG. 8B

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
 Title: DCT/IDCT with Minimum Multiplication
 Inventors: He Ouyang, et al.
 Atty. Docket No.: 22682-06189

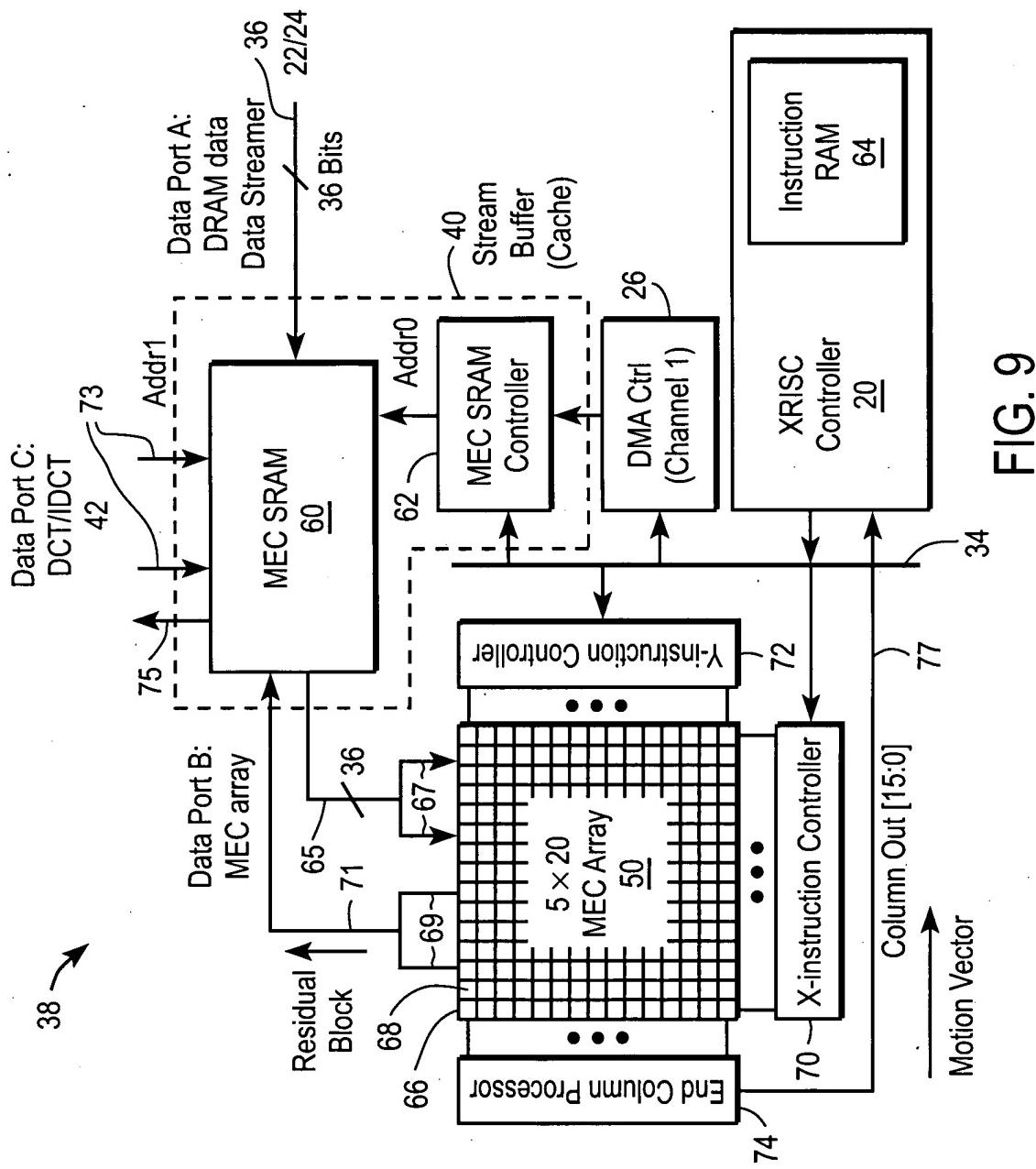


FIG. 9

34

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
 Title: DCT/IDCT with Minimum Multiplication
 Inventors: He Ouyang, et al.
 Atty. Docket No.: 22682-06189

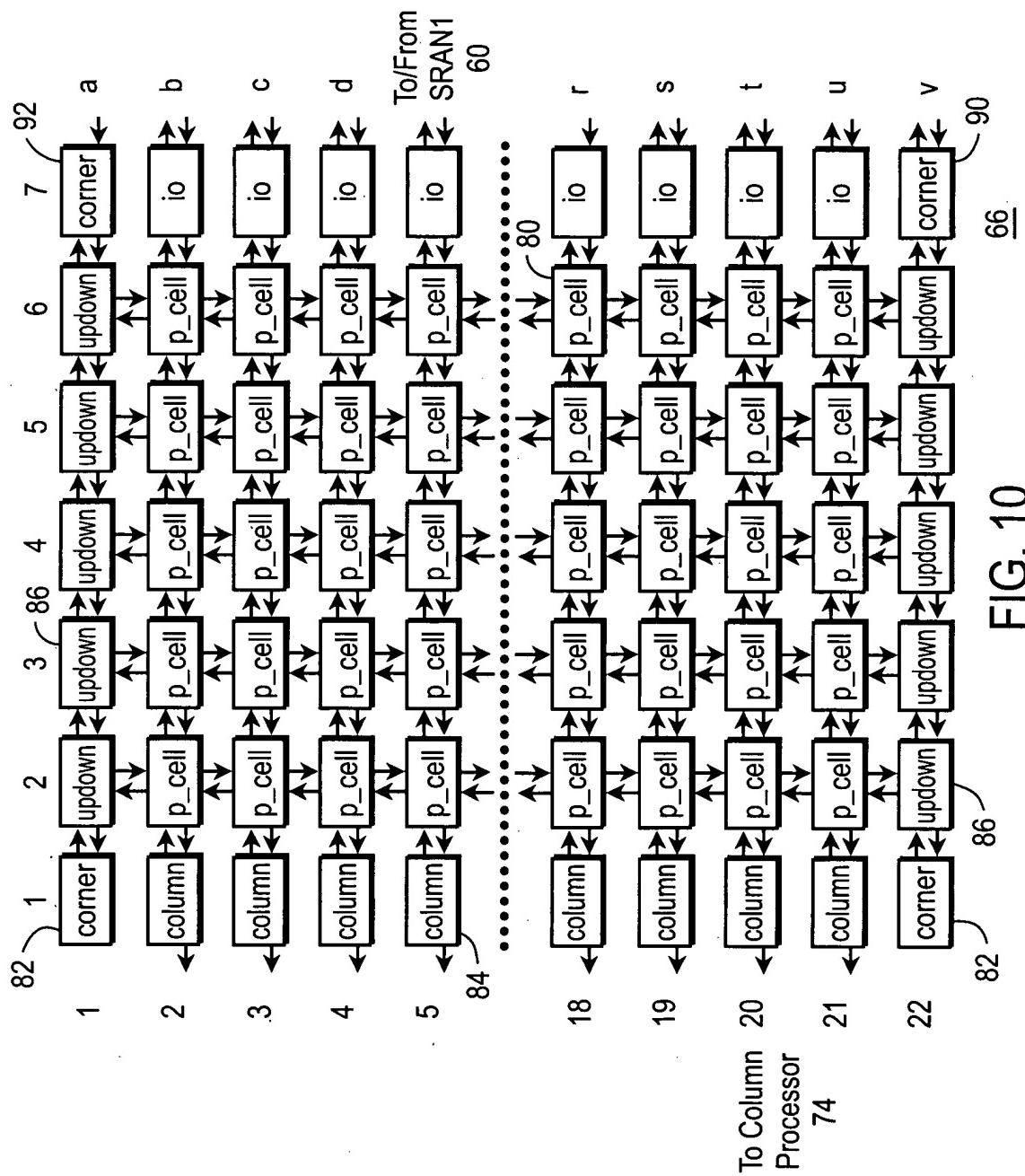


FIG. 10

REPLACEMENT SHEET

U.S. patent application serial No.: 09/924,140
Title: DCT/IDCT with Minimum Multiplication
Inventors: He Ouyang, et al.
Atty. Docket No.: 22682-06189

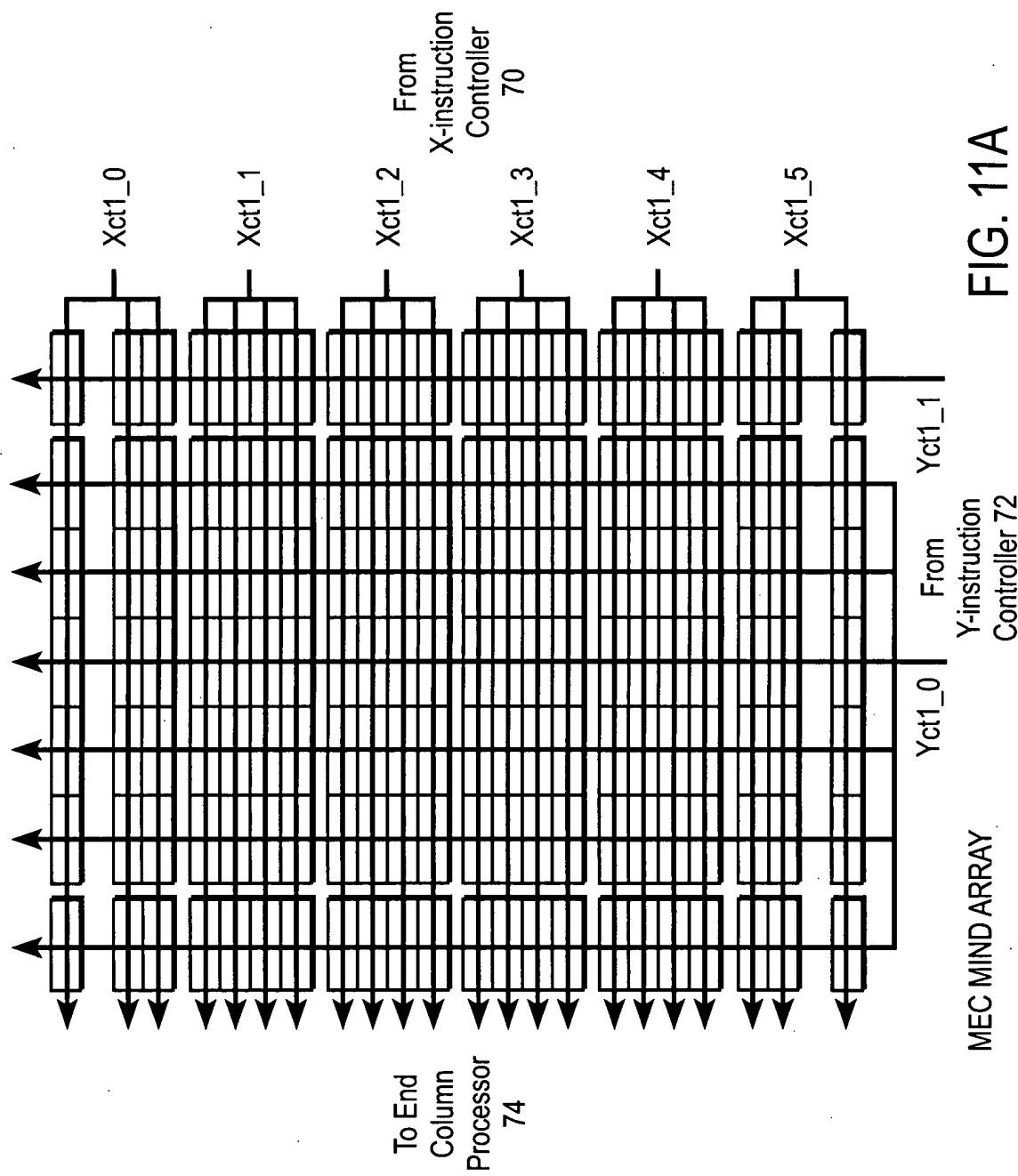
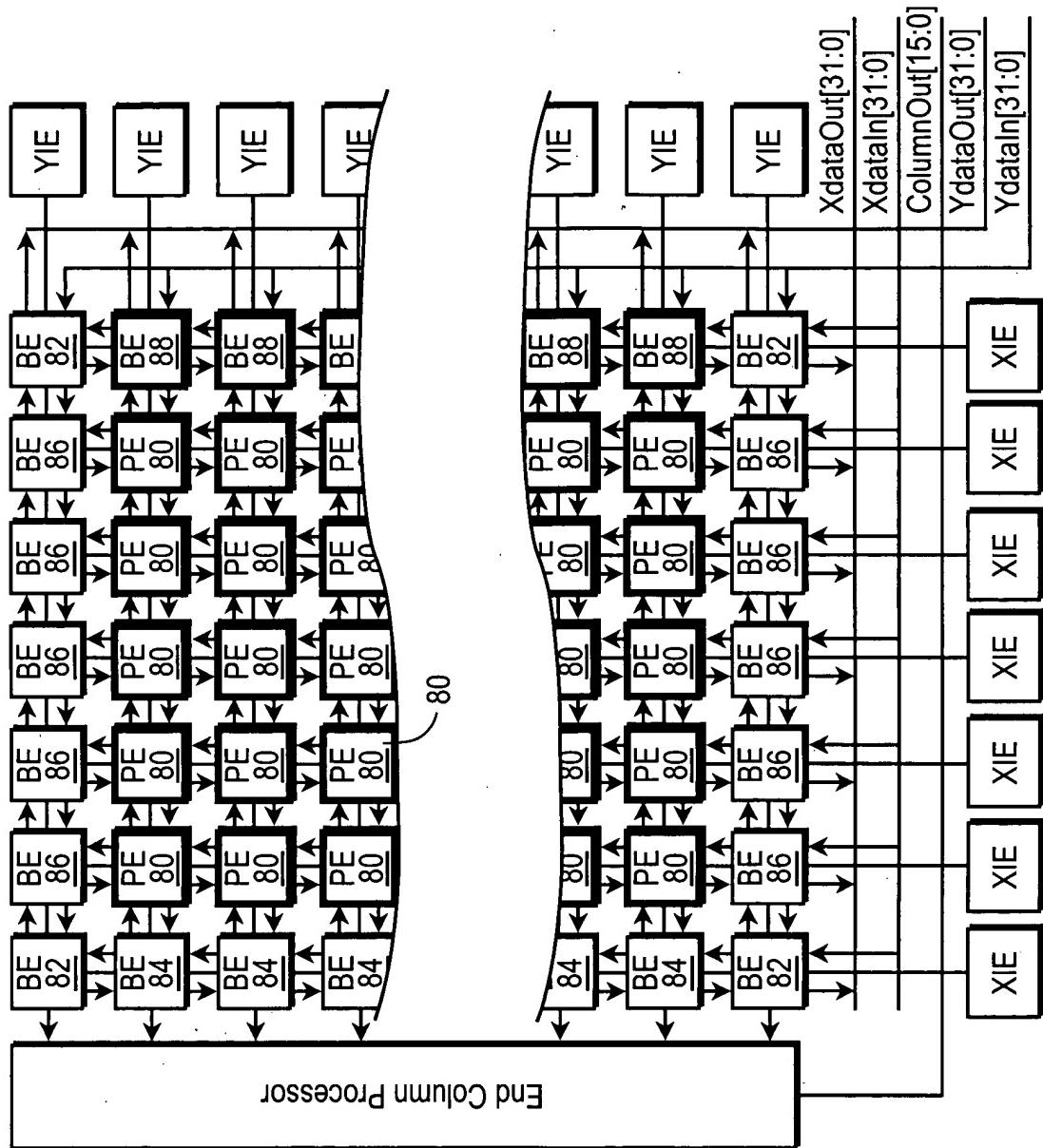


FIG. 11A



Processor Element = p_cell 80	Boundary Element (82, 84, 86, 88)	X-instruction Element 94	Y-instruction Element 96
MEC SIMD Array			FIG. 11B